



## CITY OF LODI

## COUNCIL COMMUNICATION

**AGENDA TITLE:** Specifications and Advertisement for Bids for 15,000 feet of #750 600-volt XHHW Aluminum Conductor

**MEETING DATE:** October 6, 1999

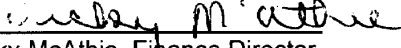
**PREPARED BY:** Electric Utility Director


**RECOMMENDED ACTION:** That the City Council approve the specifications for 15,000 feet of #750 600-volt XHHW aluminum conductor, and authorize advertisement for bids therefor.

**BACKGROUND INFORMATION:** This conductor will be needed for the PCP project at 650 South Guild Avenue. This portion of the project involves installation of eight underground secondary runs from each of the three transformers on the site to electrical panels in the PCP building. Each run consists of four 150-foot lengths of 600-volt conductor to yield a net requirement of 14,400 feet of conductor.

**BID OPENING:** October 20, 1999

**FUNDING:** Electric Utility Department's Operating Fund  
Estimated Cost: \$20,000

**Funding Approval:**   
Vicky McAthie, Finance Director

  
Alan N. Vallow  
Electric Utility Director

**PREPARED BY:** Joel Harris, Purchasing Officer

ANV/JH/lst

C: City Attorney

**APPROVED:** 

H. Dixon Flynn - City Manager

## **EQUIPMENT SPECIFICATIONS**

### **600-VOLT XHHW 750kcmil CABLE**

#### **GENERAL:**

Cable furnished under these specifications shall be limited to cross-linked polyethylene, high-heat, moisture-resistant insulated cable rated 600 volts and suitable for installation in ducts, in wet or dry locations, with normal conductor temperatures up to 90 degrees C. Cables furnished shall meet the requirements of the applicable NEMA, ICEA, AEIC, and ASTM standards, latest edition thereof, unless otherwise noted in this specification.

#### **CABLE:**

##### **A. CONDUCTOR:**

The conductor shall be aluminum alloy, EC grade, 1/2 to 3/4 hard, 61 strands.

##### **B. INSULATION:**

Conductor insulation shall be black, cross-linked polyethylene, high-heat and moisture resistant.

##### **C. IDENTIFICATION:**

Each conductor shall have a permanent marking showing the manufacturer's name, voltage rating, conductor size and type of insulation.

##### **D. TESTING AND GUARANTEE:**

Testing of cable shall be performed according to procedures set forth by the ICEA, AEIC and ASTM. Certified copies of Pass/Fail test results shall be supplied to the City of Lodi at time of shipment. Any cable found defective either upon inspection, testing or installation will be returned at the manufacturer's expense.

##### **E. CONDITIONAL BIDS:**

Any conditional bids such as "subject to availability in stock" will be rejected as non-responsive.

**REELS:**

**A. MAKEUP:**

The conductor shall be supplied on standard reels at 1000 feet per reel.

**B. PACKAGING**

Each reel shall have moisture-resistant protective covering across the conductor, such covering to consist of coated paperboard or plastic wrap. Each end of the cable shall be firmly secured to the reel.

**C. MARKING**

Each reel shall be marked with a durable label securely attached to a flange of the reel and plainly marked stating the destination, the purchaser's order number, shipping length of cable on reel, type and size of conductor, insulation type and thickness, voltage rating and manufacturer's identification number.

**D. SHIPPING:**

All reels shall be shipped on standard pallets, and shipments shall be prepaid, F.O.B. Lodi, California.